

# **Proceedings of the 43<sup>rd</sup> meeting of Project Approval Committee (PAC) of Technology Mission on Coconut held at Kochi on 18<sup>th</sup> September, 2014**

The 43<sup>rd</sup> meeting of the Project Approval Committee (PAC) on Technology Mission on Coconut (TMOC) was held in the Board Room of Coconut Development Board, Kochi on 18th September, 2014. Shri T.K. Jose IAS, Chairman, Coconut Development Board and Chairman PAC chaired the meeting. The list of participants is enclosed.

At the outset, Chairman welcomed the members of PAC and experts to the meeting. In his introductory remarks Chairman briefed about the present scenario of Coconut prices and he stated that the Coconut Processing units are affected by the price fluctuations. He also pointed out the various possibilities and avenues available for value addition in coconut sector especially Neera and value added products from Neera.

After the introductory remarks agenda items were taken up.

## ***AGENDA No. 1: Confirmation of the Proceedings of 42<sup>nd</sup> Project Approval Committee Meeting held on 22<sup>nd</sup> April, 2014***

The Committee confirmed the proceedings of the 42<sup>nd</sup> Project Approval Committee Meeting.

## ***AGENDA No. 2: Action taken report on decisions of the 42<sup>nd</sup> PAC Meeting***

The committee perused the action taken on the decisions of the 42<sup>nd</sup> meeting of the Project Approval Committee.

## ***AGENDA No. 3: Approval of new project proposals:***

### **1. Development of Secondary metabolite based biocide for control of Red Palm Weevil (*Rhynchophorus ferrugineus*) infesting Coconut Plantations – M/s. Camson Biotechnologies, Bangalore**

The objective of the project is to develop a non-chemical, zero residue and effective secondary metabolite based biocide against Red palm weevil.

The project was presented by the Principal Investigator Dr. Nisha M, Scientist (Biocide Division) Research and Development Unit of Camson Biotechnologies, Bangalore. After detailed discussions, PAC opined that Toxicological studies are of recurring nature that may be included in the recurring expenses and Non-recurring expenses should be met by the implementing agency.

However, PAC has approved the project in principle and advised the P.I. to revise the budget as discussed above and resubmit for Chairman's approval.

### **2. Evaluation of the Nutritional and Medicinal properties of Neera and Neera Products - Amrita School of Pharmacy, Kochi**

The objective of the project is to evaluate the medicinal and nutritional properties of Neera, Neera Sugar and Neera Honey.

The project was presented by the Principal Investigator Dr. Sabitha M, Principal, Amrita

School of Pharmacy, Kochi. Dr. D.M.Vasudevan, Expert member of PAC, opined that this project should be considered as a pre-clinical study and clinical trials may be taken up as a second phase of the study.

After detailed discussions, PAC approved the project at a total cost of Rs 79.35 lakhs, with the Boards share being Rs.34.00 lakhs.

### **3. Virgin Coconut Oil as a Neuro Regenerative agent for Alzheimer's disease-Computational analysis Pharmacogenomic study – Computational Engineering and Networking Amrita Vishwa Vidyapeetham, Coimbatore.**

The objective of the project are: Identification and characterization of genes and proteins responsible for Alzheimer's disease (AD), Identification of phytochemicals present in virgin coconut oil and study their pharmacophoric effect on neuro regenerative activity, to study the influence of coconut oil in the pharmacophoric binding of phytochemicals on AD targets, to study the effect of metabolites generated from phytochemicals of virgin coconut oil on controlling the AD targets, to study the genetic signature behind proneness of the disease as well as the susceptibility of the identified potential ligand molecules to control the disease, to conduct pharmacokinetic and pharmacodynamic study on the potential ligands identified and to study the possibility of identifying templates/potential drugs derived from the potential ligands present in Virgin coconut oil.

The project was presented by the Principal Investigator Dr. P. K. Krishnan Namboori, Associate Professor, Computational Engineering and Network, Amrita Vishwa Vidya Peetham, Coimbatore. The PAC appreciated the initiative taken up for the present study and suggested that this study may be linked with AIMS, Kochi and synergise the project.

After detailed discussions PAC suggested that the budget of the project has to be reworked and the cost is to be shared between CDB and Amrita Vishwa Vidya Peetham, Coimbatore on a 50:50 share basis subject to a maximum ceiling of Rs.35.00 lakhs from CDB. PAC has approved the project in principle and has authorized Chairman, CDB to sanction the project as and when revised project is received.

### **4. Effect of Virgin coconut oil as a Dietary supplement on lipid profile and oxidative stress in dislipidemic individuals with Low High density lipoproteins [HDL] – Amrita Institute of Medical Sciences, Kochi**

The project was presented by the Principal Investigator Dr. M.Vijayakumar, Prof of Cardiology, AIMS, Kochi.

The **Primary** objectives of the project are to assess the HDL raising and LDL lowering property of Virgin coconut oil, to assess the antioxidant properties of virgin coconut oil, to assess the influence of virgin coconut oil on Apolipoproteins. The P.I. informed that the **Secondary objectives would include** assessment of the effect of virgin coconut oils on Diabetes and inflammatory markers also.

The PAC opined that Investigators fee and over head charges may be excluded from the project and salaries of Research fellow may be regulated in accordance with ICMR guidelines and budget revised accordingly showing share of CDB and AIMS, Kochi. CDB's share is 50% of the project cost with a ceiling of Rs.35.00 lakhs. However the PAC was of the opinion that VCO required for the studies may be supplied by the Board.

After detail discussion the project was approved in principle and PAC authorized Chairman to approve the project after receiving the revised budget as per the above suggestion of PAC.

**5. Effect of fresh coconut in a balanced diet - a randomized comparative study –  
Swami Vivekananda Yoga Anusandhana Samsthana, Bangalore**

The project was presented by Ms. Gouri Rokkam, Co-Principal Investigator of the study.

The objectives of the project is to investigate whether daily consumption of fresh coconut in a standardize Yoga based balanced diet impacts lipid profile, body mass, body composition, blood glucose, and inflammatory markers in healthy adults.

Dr. D.M.Vasudevan, Principal (Retd.), Amrita Institute of Medical Sciences, Kochi and expert member informed the PAC that though the consumption of raw coconut has been old tradition and stated as beneficial in ancient books as referred by the Co-P.I. but so far no scientific studies have been conducted. This could be the first such studies, however the Board has to see whether it could be supported under TMOC.

After detail discussion PAC opined that with the budget projected by the P.I. it is difficult to sponsor the study by CDB alone. However the Board and Swami Vivekananda Yoga Anusandhana Samsthana, Bangalore may approach jointly to ICMR for this study. Alternatively, the P.I. should talk with their management and submit a revised project where all analysis charges are based on actual cost basis and not as per the commercial rates fixed by the SVYAS or on 50:50 share basis. In addition engagement of personnel are to be rationalized to minimum. Over head charges needs to be excluded from the project as it is joint work of the Institute and the Board. The PAC advised the Co-P.I. to discuss with the Deputy Director, CDB and revise the project. The PAC approved the project in principle and authorized the Chairman to approve the revised project as and when submitted by the Institute.

**6. Coconut wood furniture making through training for self help groups (SHG) –  
College of Forestry, KAU, Thrissur**

The objectives of the project is to set up a modern Coconut Wood Workshop-cum-Training Centre, installing advanced machineries for carving and manufacture of utility items such as furniture, interior decorative items, building materials, handicraft items etc., based on coconut wood and to market the finished products so as to popularize the use of coconut wood and to impart training in manufacture of the above items to self help groups (SHG) of unemployed youth.

The project was not found useful by the ISC for funding under TMOC but placed before PAC for consideration.

The PAC decided that P.I. may be invited to present the project before next PAC.

**7. Proposal for FSSAI Certification for the Coconut Neera Pilot Plant and  
Operation on a Self sustainable Basis - Coconut Development Board, Institute of  
Technology, Vazhakulam.**

The objective of the project is to obtain FSSAI certification for the coconut neera pilot plant and to operate the pilot plant on a self-sustainable basis.

The project was presented by Principal Investigator Mr. Sreekumar Poduval, Processing Engineer, CIT, Vazhakulam

The PAC after detailed discussion approved the project allowing Non-recurring expenses of

the project fully and limiting recurring expenses only to Rs.7.00 lakhs for two months i.e., October and November, 2014. Non-recurring expenses based on written recommendations of FSSAI consultant may be included in the project and all works should be completed within 3 months. The PAC approved the project in principle and authorized Chairman to approve the revised project.

**8. Setting up of Neera Processing and packing unit and Neera based Value Addition Unit - M/s. Ananthapuri Coconut Producers Company Ltd (ACPCL) 845, Oottiyarathala, 2, Thalalay, Aralummodu – PO, Trivandrum, Kerala.**

The project was presented by the company Directors Shri Wilfredson Vedanayagam Jemy and Shri Y. Joseph. The objective of the project is to set up a neera processing unit to process 9000 litres neera and pack as a nutrition drink and to convert 2000 litre raw neera into palm jaggery and palm sugar per day.

<b>Components</b>	<b>Total Project Cost</b>	<b>Eligible Project Cost</b>	<b>Maximum Eligible Subsidy</b>
	<b>(₹ in lakhs)</b>		
Land & Land Dev	101.00	-	-
Building & Civil works	138.00	138.00	34.50
Plant & Equipments	268.00	268.00	67.00
Electrical installation	15.00	15.00	3.75
Preliminary & Pre op. expenses	25.00	4.21	1.05
Working Capital margin	203.00	-	-
<b>TOTAL</b>	<b>750.00</b>	<b>425.21</b>	<b>Limited to 50.00 lakhs</b>

After detail discussion, PAC stated that equity of the company should be above one crore. PAC advised the CIT Vazhakulam team to redesign the plant with a capacity to process 2500 litres of neera per shift so that two shifts can be operated and in the lowest possible expenditure processing of neera can be done by the CPCs.

The PAC approved the project in principle subject to the condition that equity should be mobilised to one crore and neera technician training expedited so that trained technicians are available in accordance to the number of palms expected to be tapped. The PAC authorised Chairman to approve the project as and when documents as per TMOC norms are submitted and equity mobilisation and neera technician training is expedited.

**9. Setting up of Neera Processing and packing unit and Neera based Value Addition Unit - M/s. Kasaragod Coconut Producer Co. Ltd (KCPCL), Door No. KKP/10/601, Pachudu Building, Thekke Bazar, Vellarikkundu Post, Parappa Via, Kasaragod, Kerala**

The project was presented by Shri Baby M.P., Chairman, KCPCL, Kasargod. The objective of the project is to process 10,000 litres of neera for packing of nutritious drink and to making other value added product from neera.

Components	Total Project Cost	Eligible Project Cost	Maximum Eligible Subsidy
	(₹ in lakhs)		
Land (Lease)	...		
Building & Civil works (including ETP)	80.00	80.00	20.00
Plant & machinery	200.00	200.00	50.00
DG Set – 62.5 KVA	7.500	5.00	1.25
Refrigerated vans	10.00	-	-
Electrical installation	15.00	15.00	3.75
Laboratory equipments	1.00	1.00	0.25
Technical know how & consultancy	1.00	1.00	0.25
Furniture & fittings	2.00	-	-
Preliminary & Pre op. expenses	6.00	3.02	0.78
Working Capital margin	127.50	-	-
<b>TOTAL</b>	<b>450.0</b>	<b>305.02</b>	<b>Limited to 50.00 lakhs</b>

The PAC after detailed discussion approved the project in principle and authorized Chairman, CDB to approve the proposal subject to submission of required document as per TMOC norms.

**10. Neera Marketing by Cold Chain - Muthalamada Federation of Coconut Producer Societies, Oorkulamkavu, Muthalamada Govindapuram P.O., Palakkad – 678507, Kerala**

The project was presented by Sri Vinod Kumar, Chairman, PCPCL, Palakkad. After presentation of the project PAC appreciated the efforts made by the Federation for benefiting the farmers by providing an income of Rs.3500 - 4500 per tree per month for the neera produced and Rs.20,000 - 25,000 per month to neera technician.

Components	Total Project Cost	Eligible Project Cost	Maximum Eligible Subsidy
	(₹ in lakhs)		
Land	lease	-	-
Building- Alteration & Renovation works in AC Sheet Roof & RCC Roof Building	12.25	12.25	3.06
Plant & Equipments	53.57	53.57	13.39
Laboratory & Storage equipments	8.00	8.00	2.00
Logistics & Installation	2.00	2.00	0.50
Miscellaneous	1.00	-	-
Preliminary & Pre op. expenses	2.00	0.75	0.19
<b>TOTAL</b>	<b>78.82</b>	<b>76.57</b>	<b>19.14</b>

After detail discussion PAC decided that the objective of the project is production of 6000 litres of neera per day by using CPCRI technology and market the product in its natural condition by cold chain process.

The PAC advised the P.I. to revise the title and objective of the project suitably and approved the project in principle authorizing the Chairman to approve the revised project as and when received and documents as per TMOC norms are submitted.

### **11. Setting up of a Desiccated Coconut Powder Unit at Palakkad Dist - M/s. Nanma Coconut Industries, Thiruvizhamkunnu, Palakkad Dist, Kerala**

The objective of the project is setting up of a desiccated coconut powder manufacturing unit with a capacity to process 15,000 coconuts per day for producing 1.50 MT desiccated coconut powder per day.

<b>Components</b>	<b>Total Project Cost</b>	<b>Eligible Project Cost</b>	<b>Maximum Eligible Subsidy</b>
	<b>(₹ in lakhs)</b>		
Land	Own		
Building & Civil works (4081 sq.ft.)	46.60	34.81	8.70
Plant & Equipments	55.60	53.20	13.30
Washing & blanching system including steam boiler	9.10	9.00	2.25
ETP	4.00	4.00	1.00
Electrification	3.00	3.00	0.75
Generator	7.50	5.00	1.25
Laboratory equipments	2.00	2.00	0.50
Office equipments	1.48	-	-
Pre op. expenses	2.00	1.11	0.28
Working Capital	12.72	-	-
<b>TOTAL</b>	<b>144.00</b>	<b>112.12</b>	<b>28.03</b>

The project was approved with an eligible subsidy of Rs 28.03 lakhs. The PAC advised the promoter to convert the unit into Private Limited Company.

### **12. Expansion, Modernisation and Technology Upgradation of Existing Desiccated Coconut Powder unit - M/s. Poojary Products, Sy. No. 29/2A Eachanur, Kasaba Hobli, Tiptur, Karnataka**

The objective of the project is expansion, modernization and Technology upgradation of existing desiccated Coconut powder making unit from its capacity of 4.00 MT per day to 7.00 MT per day i.e., for processing of 70,000 nuts per day.

<b>Components</b>	<b>Total Project Cost</b>	<b>Eligible Project Cost</b>	<b>Maximum Eligible Subsidy</b>
	<b>(₹ in lakhs)</b>		
Land	Own	-	-
Building & Civil works	59.50	50.00	12.50
Plant & Equipments	57.35	57.35	14.34

Preliminary & Pre op. expenses	2.09	1.07	0.26
Working Capital margin	6.06	-	-
<b>TOTAL</b>	<b>125.00</b>	<b>108.42</b>	<b>27.10</b>

The project was approved with an eligible subsidy of Rs 27.10 lakhs. However the PAC asked the promoter to submit audited statements and production details of the existing unit for the last three years. The PAC advised the promoter to convert the unit in to a Private Limited Company.

**13. Setting up of a Desiccated Coconut Powder Manufacturing Unit at Puthur, Thrissur – M/s. K. P. Shudh Coconut Products, Door No. 4/276/A, Pulinchode, Post – Vettukad, Thrissur, Kerala**

The objective of the project is setting up of a desiccated coconut powder manufacturing unit with a capacity to process 10,000 coconuts per day for producing 1.00 MT desiccated coconut powder per day.

Components	Total Project Cost	Eligible Project Cost	Maximum Eligible Subsidy
	(₹ in lakhs)		
Land	Own	-	-
Building & Civil works	35.00	13.20	3.30
ETP	2.00	2.00	0.50
Plant & Machinery	29.50	28.36	7.09
Electrification	2.00	1.30	0.33
Generator	3.50	3.50	0.87
Furniture & office equipments	1.70	-	-
Preliminary & Pre op. expenses	1.50	0.48	0.12
Working Capital margin	4.80	-	-
<b>TOTAL</b>	<b>80.00</b>	<b>48.84</b>	<b>12.21</b>

The project was approved with an eligible subsidy of Rs 12.21 lakhs. The promoter was advised to convert the unit into a Private Limited Company.

**14. Setting up of a Desiccated Coconut Manufacturing Unit - M/s. Sri Sai Ram Agro Tech, Sl. No. 9013, 90/10 Harisamudra, Halkurke Road, Tiptur Tq. , Tumkur Dist, Karnataka**

The objective of the project is setting up of a desiccated coconut powder manufacturing unit with a capacity to process 40,000 coconuts per day for producing 4.00 MT desiccated coconut powder per day.

Components	Total Project Cost	Eligible Project Cost	Maximum Eligible Subsidy
	(₹ in lakhs)		
Land	...	-	-
Building & Civil works	60.00	56.21	14.05
Plant & Equipments	67.40	66.59	16.65
Electrical installation	3.00	-	-
Preliminary & Pre op. expenses	1.25	1.22	0.30
Working Capital margin	8.89	-	-
<b>TOTAL</b>	<b>140.54</b>	<b>124.02</b>	<b>31.00</b>

The project was approved with an eligible subsidy of Rs.31.00 lakhs. The promoter was advised to convert the unit into a Private Limited Company.

**15. Modernisation of the existing Desiccated Coconut Powder Unit - M/s. Century Coco Products, 7/175 B, Manassery Post , Muthalam, Kozhikode, Kerala.**

The objective of the project is expansion and modernization of existing desiccated coconut powder manufacturing unit to process 15,000 coconuts per day for producing 1.50 MT desiccated coconut powder per day from present production capacity of 0.20 MT per day.

Components	Total Project Cost	Eligible Project Cost	Maximum Eligible Subsidy
	(₹ in lakh)		
Land	Leased	-	-
<u>Building</u> : Existing renovation for 1000 sq.ft. - <b>4.0</b> : New for 2000 sq.ft.- <b>14.0</b> ETP - <b>8.15</b> (limited to Rs.5.0 lahs)	26.15	23.00	5.75
Plant & Equipments	100.49	81.69	20.42
Furniture & office equipments	1.30	...	...
Pre op. expenses	2.00	1.04	0.26
Working Capital margin	14.81	...	...
<b>TOTAL</b>	<b>144.75</b>	<b>105.73</b>	<b>26.43</b>

The project was approved with an eligible subsidy of Rs 26.43 lakhs. The promoter was advised to convert the unit into a Private Limited Company.

**16. Setting Up of a Manufacturing Unit of Desiccated Coconut Powder – M/s. Prominent Nucifera, 4/534, Churakkapallam, Vengodi, Palakkad Dist, Kerala**

The objective of the project is setting up of a desiccated coconut powder unit to process 10,000 coconuts per day for manufacturing of 1.00 MT desiccated coconut powder per day.



<b>Components</b>	<b>Total Project Cost</b>	<b>Eligible Project Cost</b>	<b>Maximum Eligible Subsidy</b>
	<b>(₹ in lakhs)</b>		
Land & Land Dev.	-	-	-
Building & Civil works	35.00	28.28	7.07
Plant & Equipments	51.50	50.44	12.61
ETP	4.55	3.50	0.88
Bio Gas Plant	2.10	2.10	0.52
Electrification	2.50	2.23	0.56
Generator	4.70	4.68	1.17
Storage equipments (racks, almirahs etc)	2.60	-	-
Preliminary & Pre op. expenses	1.20	0.91	0.22
Working Capital margin	10.85	-	-
<b>TOTAL</b>	<b>115.00</b>	<b>92.14</b>	<b>23.03</b>

After detail discussion PAC decided to include the biogas plant also in the eligible project cost and eligible subsidy. After inclusion of biogas plant and recalculation of various components the PAC approved the project with an eligible project cost of Rs. 92.14 lakhs and with maximum eligible subsidy of Rs.23.03 lakhs. The PAC advised the promoter to convert the unit into a Private Limited Company.

**17. Setting up of a Virgin Coconut Oil Manufacturing Unit at Pollachi - M/s. GNK Agro Products, No. 14 Sakthi Co-operative Industrial Estate Ltd, Pollachi, Tamil Nadu**

The objective of the project is setting up of a Virgin coconut oil unit to process 5,000 coconuts per day for making 300 litres of Virgin coconut oil per day.

<b>Components</b>	<b>Total Project Cost</b>	<b>Eligible Project Cost</b>	<b>Maximum Eligible Subsidy</b>
	<b>(₹ in lakhs)</b>		
Land	lease	-	-
Building- Alteration & Renovation works in AC Sheet Roof & RCC Roof Building	24.60	24.60	6.15
Plant & Equipments	61.83	52.01	13.00
Technical know-how	0.60	0.56	0.14
Laboratory & Storage equipments	2.20	-	-
Preliminary & Pre op. expenses	2.50	0.77	0.19
Working Capital margin	1.55	-	-
<b>TOTAL</b>	<b>93.28</b>	<b>77.94</b>	<b>19.48</b>

The project was approved with an eligible subsidy of Rs 19.48 lakhs. The promoter was advised to convert the unit into a Private Limited Company.

**18. Setting up of a Virgin Coconut Oil Manufacturing Unit and Value Added Ayurvedic Products with base as VCO - M/s. Pranathmaka Ayurvedics Pvt. Ltd, Kinfra Park, Elamannur, Adoor, Pathanamthitta Dist, Kerala**

The objective of the project is setting up of Virgin coconut oil unit to process 10,000 coconuts per day for making of 600 litres of Virgin coconut oil per day.

Components	Total Project Cost	Eligible Project Cost	Maximum Eligible Subsidy
(₹ in lakhs)			
Land	Lease	-	-
Land dev.	1.85		
Compound wall	4.75	-	-
Building & Civil works	59.27	49.00	12.25
Plant & Equipments	93.64	51.55	12.88
Technical know-how	0.60	0.56	0.14
Generator	7.50	4.95	1.24
Dehydrator	5.25	5.25	1.31
Electrification	5.39		
Laboratory & storage equipments	2.00	-	-
Preliminary & Pre op. expenses	2.00	1.11	0.27
Working Capital margin	16.00	-	-
<b>TOTAL</b>	<b>198.25</b>	<b>112.42</b>	<b>28.09</b>

After detail discussion PAC decided to include the cost of Dehydrator also in the eligible project cost and eligible subsidy. After inclusion of Dehydrator and recalculation of various components, the PAC approved the project with an eligible project cost of Rs. 112.42 lakhs and eligible subsidy of Rs.28.09 lakhs.

**19. Setting up of Preservation and Packing of Tender Coconut Water unit at Palakkad - M/s. Agricoles Naturel Foods Pvt Ltd, 62, Gitanjali Heavently Villas, Kuttur – Post, Thrissur, Kerala**

The objective of the project is setting up of a unit to process 15,000 coconuts per day for manufacturing Packaged Tender Coconut Water.

Components	Total Project Cost	Eligible Project Cost	Maximum Eligible Subsidy
(₹ in lakhs)			
Land (96 cents)	10.20	...	...
Building (490.62 m <sup>2</sup> )	91.00	48.00	12.00
Plant & Machinery	85.00	85.00	21.25
Technical know-how	3.90	3.72	0.93
Electrification	10.00	...	...
ISO-22000/ISO-Certifications	3.00	...	...
Furniture & Office equipments	1.90	...	...
Preliminary expenses	6.00	1.36	0.34
Working Capital margin	19.00	...	...
<b>TOTAL</b>	<b>230.00</b>	<b>138.08</b>	<b>34.52</b>

The project was approved with an eligible subsidy of Rs 34.52 lakhs.

**20. Setting up of Tender Coconut Water Preservation and Packaging unit –  
M/s. Kumar Enterprises, Plot No. 1, Block No. 758, Atul Vasad Road, Parnera,  
Valsad, Gujarat**

The objective of the project is setting up a unit for processing of 5000 tender coconuts per day for preservation and packaging of Tender coconut water.

Components	Total Project Cost	Eligible Project Cost	Maximum Eligible Subsidy
(₹ in lakhs)			
Building & Civil works including Aluminum Section	16.08	16.05	4.01
Plant & Equipments	47.47	47.47	11.87
Automatic Sticker Labelling Machine	2.83	2.83	0.70
Electrical installation	2.00	1.51	0.37
Exhaust Fan	0.53	-	-
TV Surveillances system	0.61	-	-
Lab Equipments & Heat Monitoring system	2.00	2.00	0.50
Commercial Vehicle	4.66	-	-
Know- how fee	3.93	3.93	0.98
Contingency	0.63	-	-
Pre op. expenses	5.50	0.73	0.18
Working Capital margin	13.00	-	-
<b>TOTAL</b>	<b>97.24</b>	<b>74.52</b>	<b>18.61</b>

After detail discussion PAC accepted the request of the promoter to include the cost of Automatic Sticker Labelling Machine also which was purchased after submission of the DPR to the Board. After inclusion of Automatic Sticker Labelling Machine and recalculation of various components, the PAC approved the project with an eligible project cost of Rs.74.52 lakhs and eligible subsidy of Rs.18.61 lakhs. The promoter was advised to convert the unit into a Private Limited Company.

**21. Setting up of a Fully Mechanised Coconut Shell Powdering unit - M/s. Sellas Agro Industries, , RSF- 82/4, Kommakkovil, Perundurai Block, Thenmugam Vellode Village, Perundurai RS Post, Erode Dist, Tamil Nadu**

The objective of the project is establishment of a unit for manufacturing of coconut shell powder with a capacity of 20 MT per day.

Components	Total Project Cost	Eligible Project Cost	Maximum Eligible Subsidy
(₹ in lakhs)			
Land & land Dev.	18.04	-	-
Building & Civil works	39.00	30.74	7.68
Plant & Equipments	109.17	107.30	26.82
Electrical installations	7.90	6.84	1.71

Furniture & fittings	1.05	-	-
Pre op. expenses	2.50	1.44	0.36
Working Capital margin	9.58	-	-
<b>TOTAL</b>	<b>187.24</b>	<b>146.32</b>	<b>36.57</b>

The project was approved with an eligible subsidy of Rs.36.57 lakhs. The promoter was advised to convert the unit into a Private Limited Company.

**22. Setting up of Coconut Shell Powder Manufacturing unit - M/s. Sri Laaxmi Agro Product, 3/334-A, Madurakadu, Kuppanur Post – 637 301, Sankagiri Tk., Salem Dist, Tamil Nadu**

The objective of the project is to establish a unit for processing of Coconut Shell for manufacturing of 16 MT shell powder per day.

Components	Total Project Cost	Eligible Project Cost	Maximum Eligible Subsidy
	(₹ in lakhs)		
Land	Own	...	...
Building & Civil works	40.35	27.88	6.97
Plant & Equipments	80.00	80.00	20.00
Furniture & fittings	1.65	...	...
Electrical installation	5.00	...	...
Pre op. expenses	5.00	1.07	0.26
Working Capital margin	8.00	...	...
<b>TOTAL</b>	<b>140.00</b>	<b>108.95</b>	<b>27.23</b>

The project was approved with an eligible subsidy of Rs.27.23 lakhs. The promoter was advised to convert the unit into a Private Limited Company.

**23. Expansion of Existing Granulated Coconut Shell Charcoal unit for By-product Utilisation for the Production of Coconut Shell Charcoal Briquettes – M/s. Guru Raghavendra Char Products, Sy. No. 109/6/b, Y.T. Road, Saraswathi Nagar, Goragondanahalli, Tiptur, Karnataka**

The objective of the project is to establish a unit to utilise waste shell carbon powder received in manufacturing of Coconut shell Charcoal for making Charcoal Briquettes with a capacity of 10 MT briquettes per day.

Components	Total Project Cost	Eligible Project Cost	Maximum Eligible Subsidy
	(₹ in lakhs)		
Land	Lease	-	-
Building & Civil works	15.00	12.70	3.17
Plant & Equipments	49.00	40.59	10.15
Preliminary & Pre op. expenses	1.00	0.53	0.13
Working Capital margin	4.00	-	-
<b>TOTAL</b>	<b>69.00</b>	<b>53.82</b>	<b>13.45</b>

The project was approved with an eligible subsidy of Rs.13.45 lakhs. The promoter was

advised to convert the unit into a Private Limited Company.

**24. Setting up of a Ball Copra Making unit – Shri. Pedamallu Venkata Ramanayya, S/o. Venkata Ratnam, D. No. 2-135, Pasarlapudilanka, Mamidikuduru Mandal, E.G. Dist, Andhra Pradesh**

The objective of the project is to process 4.00 lakhs coconut per year to make ball copra.

Components	Total Project Cost	Eligible Project Cost	Maximum Eligible Subsidy
(₹ in lakhs)			
Land	Own	-	-
Platform Dryer	12.00	12.00	3.00
<b>TOTAL</b>	<b>12.00</b>	<b>12.00</b>	<b>3.00</b>

The project was approved with an eligible subsidy of Rs.3.00 lakhs.

**25. Setting up of a Ball Copra Making unit - Shri. Mriduljith C.I., Moolente Parambath Boda Making unit, Moolente Parambath House, Karandode Post, Kuttiady Via, Kozhikode Dist**

The objective of the project is to process 1.60 lakhs coconuts per year for making ball copra.

Components	Total Project Cost	Eligible Project Cost	Maximum Eligible Subsidy
(₹ in lakhs)			
Land	Own	-	-
Platform Dryer	30.00	19.60	4.90
Vessels, furniture, weighing machine	0.50	-	-
Working Capital margin	5.50	-	-
<b>TOTAL</b>	<b>36.00</b>	<b>19.60</b>	<b>4.90</b>

The project was approved with an eligible subsidy of Rs.4.90 lakhs.

**26. Setting up of a Ball Copra Making Unit - Smt. Bhavaraju Manorama, W/o Suryaprakasa Rao, B. Doddavaram – 533 247, Mamidikuduru Mandal, East Gadavari Dist, Andhra Pradesh**

The objective of the project is to process 8.00 lakhs coconuts per year for making ball copra.

Components	Total Project Cost	Eligible Project Cost	Maximum Eligible Subsidy
(₹ in lakhs)			
Land	0.30	...	...
Land dev.			
Platform Dryer	14.70	14.70	3.67
Pre op. expenses	0.30	...	...
Working Capital	10.00	...	...
<b>TOTAL</b>	<b>25.30</b>	<b>14.70</b>	<b>3.67</b>

The project was approved with an eligible subsidy of Rs.3.67 lakhs.

**27. Setting up of a Copra Making Unit at Beemanady, Kasaragod Dist. – M/s. Beemanady Mayoore Federation of Coconut Producer’s Societies, Beemanady Post, Nileswaram Via, Kasaragod**

The objective of the project is to process 3.00 Million nuts per year (10,000 nuts per day) for making copra.

Components	Total Project Cost	Eligible Project Cost	Maximum Eligible Subsidy
( ₹ in lakhs)			
Land	Leased	-	-
Building & civil works	12.00	12.00	3.00
Plant & Equipments	13.00	13.00	3.25
Pre op. expenses	1.00	0.25	0.06
Working Capital	4.00	-	-
<b>TOTAL</b>	<b>30.00</b>	<b>25.25</b>	<b>6.31</b>

The project was approved with an eligible subsidy of Rs.6.31 lakhs.

**28. Setting up of an Integrated Coconut Processing Unit for Production of VCO & D.C. at KSIDC, Kuthuparamba, Kannur Dist - M/s. Livendo, PP-142/X, MLA Road, Panunda, Post – Eruvatty, Kannur, Kerala**

The objective of the project is to establish a unit for processing of 20,000 nuts for making 1200 litres Virgin coconut oil and processing of 20,000 nuts for making 2.00 MT desiccated coconut powder per day

Components	Total Project Cost	Eligible Project Cost	Maximum Eligible Subsidy
( ₹ in lakhs)			
Land	20.00	-	-
Building & Civil works	40.00	40.00	10.00
Plant & Equipments	110.00	110.00	27.50
Furniture & Fittings	5.00	-	-
Preliminary & Pre op. expenses	10.00	1.50	0.38
Working Capital	50.0	-	-
<b>TOTAL</b>	<b>235.00</b>	<b>151.50</b>	<b>37.88</b>

The project was approved with an eligible subsidy of Rs.37.88 lakhs. The promoter was advised to convert the unit into a Private Limited Company.

**Other Items**

**1. Project for Setting up of a Coconut Processing unit at Chathamangalam, Kozhikode Dt by The Kozhikode Sahakarana Marketing Society Ltd. Chathamangalam, Kozhikode Dt.**

The project was approved by 28<sup>th</sup> PAC held on 07.10.2008 for setting up of a coconut processing unit at Chethamangalam, Kozhikode, Kerala for processing of 20,000 coconuts per day for production of milling copra and to process 3 tons of copra per day for production of

coconut oil and to process 1000 litres of coconut water per day for making vinegar.

Since then the project was pending, as only one of the three components i.e. installation of copra dryer could be completed by the Society due to financial hardship. While reviewing the pending projects it was decided that oil and vinegar should be excluded from the project and as per actual expenditure final subsidy could be regularized.

As decided, the society was instructed to submit the actual expenditure details and documents were submitted by them. Accordingly the recalculation of subsidy was done and placed before PAC for approval for release of balance subsidy of Rs.17,650/-.

The after detail discussion PAC approved the decision for regularizing the subsidy.

**2. M/s. Global Associates, Manjeshwar, Badaje, Kasargod has submitted a project proposal for Setting up of Packed Tender coconut water unit at a total cost of Rs.110.40 lakhs – For information of PAC**

The 39<sup>th</sup> PAC approved the project subject to submission of necessary details. Accordingly details were submitted by the promoter and the project was approved by Chairman and as decided by the 39<sup>th</sup> PAC submitted for ratification of PAC.

The PAC ratified the decision taken by the Chairman.

**3. Project “Generation of xylooligosaccharides from green coconut husk for augmenting gut health and function – National Institute of Animal Nutrition and Physiology, Bangalore - Extension of project period- Ratification.**

PAC ratified the extension of project period up to 30.04.2015.

**4. Large scale procurement of seed nuts from superior dwarf by screening and identification in Southern Zone of Kerala - Extension of project period - KAU, Vellanikkara**

The objective of the project was screening and identification of superior dwarf mother palms and procurement of 30,000 seednuts from these identified mother palms during the project period 06.06.2011 and 06.06.2014.

Against the target of 30,000 seednuts, only 6349 seednuts could be procured during the project period. Reasons for delay in the project were attributed to administrative delay in the offices of KAU and internal issues within KAU.

After detailed discussions, PAC noted that even by granting an extension of one year, the final deliverables of the project are not likely to be achieved. As such no purpose will be served by giving another extension. Therefore, the PAC advised to wind up the project as of now and KAU may be requested to refund the unspent balance.

**Other Decisions:**

1. All the units with project cost more than 50.00 lakhs may be advised to convert their units into a Private Limited Company.

2. TMOC cell should ask all the units to submit their monthly production details till completion of the project regularly.
3. Expert member and former Chairman of CDB Dr. M. Aravindakshan opined that Quality Testing Laboratories of the Board may not be restricted to testing of only coconut products but it may be promoted for testing of all the agricultural food materials including pesticide residue tests.

After detail discussion the PAC decided that expert member Dr. M. Aravindakshan may visit the CIT, Vazhakulam and submit a feasibility report.

The meeting concluded by 8.30 PM with a vote of thanks to and from the Chair.

Chief Coconut Development Officer



### List of Participants

Sl. No.	Name and Address
<b>A</b>	<b>PAC MEMBERS</b>
1	Shri. T.K. Jose IAS Chairman, Coconut Development Board Kochi, PAC Chairman
2	Dr. A.G. Gopalakrishna Scientist, Department of Lipid Science & Traditional Foods CFTRI (CSIR), Mysore <b><u>Representative of</u></b> Director, Central Food Technological Research Institute (CFTRI), Mysore
3	Dr. V. Krishna Kumar Head, CPCRI (RS), Kayamkulam <b><u>Representative of</u></b> Assistant Director General (Plantation Crops) Indian Council of Agriculture Research (ICAR), Krishi Anusandhan Bhavan –II, Pusa, New Delhi-110 012
4	Dr. P.Ushamani AGM, NABARD, Regional Office, Thiruvananthapuram <b><u>Representative of</u></b> Chief General Manager, Technical Services, NABARD, Mumbai
5	Dr. Anilkumar R, Asst. Agricultural Marketing Adviser, Directorate of Marketing & Inspection (DMI), Kochi <b><u>Representative of</u></b> Joint Secretary & Agricultural Marketing Adviser to Govt. of India, New Delhi.
6	Shri. Mathew N.M. Chief Manager, Indian Overseas Bank, MG Road, Ernakulam. <b><u>Representative of</u></b> Chief General Manager, Indian Overseas Bank, Bangalore City Branch, Gandhi Nagar, Bangalore
7	Shri. Sugata Ghose, Chief Coconut Development Officer, Coconut Development Board, Kochi

<b>B</b>	<b>EXPERTS</b>
1	Dr. M. Aravindakshan Former Chairman, CDB and Coordinator, Centre for Environmental Studies Amrita Vishwa Vidya Peetham University, Coimbatore
2	Dr. D.M. Vasudevan Principal (Retd.), Amrita Institute of Medical Sciences, Kochi
<b>C</b>	<b>In Attendance</b>
1	Dr. A.K. Nandi Secretary, CDB, Kochi
2	Shri. Hemachandra Deputy Director (Mkg), TMOC Incharge, CDB, Kochi
3	Shri. Sreekumar Poduval Processing Engineer, CDB, Kochi
4	Shri. P. Sabareenathan Finance Officer, CDB, Kochi
5	Shri. S.S. Choyal Assistant Director (TMOC), CDB, Kochi
6	Smt. Resmi. D. S. Technical Officer, CDB, Kochi